



# I Commands

This chapter describes the Cisco Nexus Cloud Services Platform commands that begin with the letter I.

## import

To import a previously saved backup copy of a virtual service blade (VSB) from remote storage to the Cisco Nexus 1010, use the **import** command.

```
import [primary | secondary] filename
```

Syntax	Description
<b>primary</b>	(Optional) The Cisco Nexus 1010 that was assigned the primary role.
<b>secondary</b>	(Optional) The Cisco Nexus 1010 that was assigned the secondary role.
<i>filename</i>	Import file name.

**Defaults** None

**Command Modes** Virtual service blade configuration (config-vs-b-config)

**Supported User Roles** network-admin

Command History	Release	Modification
	4.2(1)SP1(3)	This command was introduced.

**Usage Guidelines** If importing to a redundant pair of Cisco Nexus 1010s, you must specify whether importing to the primary or secondary.

You have verified that the bootflash: export-import directory is empty. If files are present in this directory, you must delete them before importing a VSB configuration file.

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Before importing, you have copied the exported image file from remote storage into the Cisco Nexus 1010 export-import folder in the bootflash: repository.

### **Examples**

This example shows how to import the image file Vdisk1.img.tar.00 to the primary VSB vsm-1 and power off the VSB:

```
n1010# configure terminal
n1010(config) virtual-service-blade vsm-1
n1010-1(config-vs-b-config)# import primary Vdisk1.img.tar.00
Note: import started..
Note: please be patient..
Note: Import cli returns check VSB status for completion
n1010-1(config-vs-b-config)#
```

### **Related Commands**

<b>Command</b>	<b>Description</b>
<b>export</b>	Exports a VSB configuration file from the Cisco Nexus 1010.
<b>show network</b>	Displays information about the network.
<b>show virtual-service-blade</b>	Displays information about virtual services.
<b>show virtual-service-blade-type summary</b>	Displays a summary of all virtual service configurations by type, such as Virtual Supervisor Module (VSM) or Network Analysis and Monitoring (NAM).

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## install nexus1010

To install management software for the Cisco Nexus 1010, use the **install nexus1010** command.

```
install nexus1010 {bootflash: path}
```

Syntax Description	bootflash:	Specifies a path from the bootflash directory.
	path	Full path to the image file (.iso)

**Defaults** None

**Command Modes** EXEC

**SupportedUserRoles** network-admin

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Usage Guidelines** You can view the available installation image files by using the **dir** command. For example:

```
n1010# dir bootflash:
n
  77824      Mar 27 06:02:44 2010  accounting.log
  16384      Mar 26 22:31:33 2010  lost+found/
   5023      Jan 18 00:23:37 2009  mts.log
 48346519   Jan 15 21:33:25 2001  nexus-1010-mzg.4.0.4.SP1.0.171.bin
   4096      Jan 15 21:27:11 2001  repository/

Usage for bootflash://
 308473856 bytes used
 3682906112 bytes free
 3991379968 bytes total
n1010# cd repository
n1010# dir
  77824      Jan 24 05:02:49 2001  accounting.log
   370       Jan 24 05:03:02 2001  cppa_mgr.log
  16384      Jan 15 21:33:09 2001  lost+found/
 1331914     Jan 15 21:33:21 2001  nexus-1010.4.0.4.SP1.0.197.iso
 20971008    Jan 15 21:33:22 2001  nexus-1010-4.0.4.SP1.0.171.iso

Usage for bootflash://
 308473856 bytes used
 3682906112 bytes free
 3991379968 bytes total
Nexus1010#
```

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### Examples

This example shows how to install management software for the Cisco Nexus 1010:

```
n1010# install nexus1010 bootflash:repository/nexus-1010.4.0.4.SP1.0.197.iso
cppa_mgr debug: Using URI: bootflash:/repository/nexus-1010.4.0.4.SP1.0.197.iso
Installing bootflash:/repository/nexus-1010.4.0.4.SP1.0.197.iso
.....
Installation complete.
Save configuration and restart for changes to take effect

n1010#
#
```

### Related Commands

Command	Description
<b>copy running-config startup-config</b>	Copies the running configuration to the startup configuration.
<b>dir</b>	Displays the contents of a directory or file.

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## interface mgmt

To configure the management interface and enter interface configuration mode, use the **interface management** command.

**interface mgmt0**

**Syntax Description** This command has no arguments or keywords.

**Defaults** None

**Command Modes** Global configuration (config)  
Interface configuration (config-if)

**SupportedUserRoles** network-admin

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Usage Guidelines** Use the **interface mgmt0** command to configure the management interface and to enter the interface configuration mode.

**Examples** This example shows how to enter the interface configuration mode to configure the management interface:

```
n1010(config)# interface mgmt0
n1010(config-if)#
```

Related Commands	Command	Description
	<b>interface loopback</b>	Create and configures a loopback interface.
	<b>show interface brief</b>	Displays a short version of the interface configuration.

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## interface *name* mode passthrough

To configure a VSB interface in passthrough mode, use the **interface mode passthrough** command.

```
interface name mode passthrough
```

### Syntax Description

*name* name of the interface to configure in the passthrough mode.

### Defaults

None

### Command Modes

VSB Interface configuration (config-vsbs-config)

### Supported User Roles

network-admin

### Command History

Release	Modification
4.2(1)SP1(6.1)	This command was introduced.

### Usage Guidelines

- This command can be used only in a flexible topology.
- Passthrough mode is currently available for VXLAN Gateway VSBs.

### Examples

This example shows how to configure a VXLAN Gateway VSB in the passthrough mode:

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```

switch(config)# virtual-service-blade VXGW
switch(config-vs-b-config)# virtual-service-blade-type new vxgw.4.2.1.SV2.1.1 iso
Note: please be patient.
switch(config-vs-b-config)# [no] interface vxgw_intf_1 uplink1 uplink GigabitEthernet2
switch(config-vs-b-config)#
switch(config-vs-b-config)# interface vxgw_intf_2 uplink2 uplink GigabitEthernet3
switch(config-vs-b-config)
switch(config-vs-b-config)# interface vxgw_intf_1 uplink1 mode passthrough
vxgw_intf_2 uplink2 mode passthrough
switch(config-vs-b-config)
switch(config-vs-b-config)#enable
Enter vsb image: [vxgw.4.2.1.SV2.1.1 iso]
Enter domain id[1-4095]: 4
Management IP version [V4/V6]:[V4]
Enter primary IP address: 10.105.234.50
Enter primary subnet mask: 255.255.255.224
IPv4 address of the default gateway: 10.105.234.33
Enter Hostname: vxgw
Enter the password for 'admin': pwd123
VSM L3 Ctrl IPv4 address: 10.105.234.53
VSM Primary MAC Address: 00:02:3d:78:c4:0c
Enter VSM uplink port-profile name: UPLINK-VXGW
Enter Encapsulation port-profile name: vxlangw-tvlan1495
Note: VSB installation is in progress, please use show virtual-service-blade commands to
check the installation status.
switch(config-vs-b-config)

```

**Related Commands**

Command	Description
<b>virtual-service-blade-name</b> <i>name</i>	Create and configures a loopback interface.
<b>show network summary</b>	Displays a summary of all VSBs including the ones configured in passthrough mode.

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## interface GigabitEthernet

To configure the Gigabit Ethernet interface and enter the interface configuration mode, use the **interface GigabitEthernet** command.

```
interface GigabitEthernet id
```

Syntax	Description
<i>id</i>	ID of the Gigabit Ethernet interface [intf-id].

Defaults	None
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Command Modes	Interface configuration (config-if)
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Supported User Roles	network-admin
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Command History	Release	Modification
	4.2(1)SP1(4)	This command was introduced.

**Examples** This example shows how to enter the interface configuration mode on GigabitEthernet4:

```
n1010# configure terminal
n1010(config)# interface GigabitEthernet4
n1010(config-if)#
```

Related Commands	Command	Description
	<b>show interface brief</b>	Displays a short version of the interface configuration.
	<b>show interface ethernet</b>	Displays information about the Ethernet interface.
	<b>show interface mgmt0</b>	Displays information about the traffic on the management interface.
	<b>show interface vethernet</b>	Displays information about the traffic on the specified virtual Ethernet interface.



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## interface PortChannel

To configure a port channel interface and enter the interface configuration mode, use the **interface PortChannel** command.

```
interface PortChannel id
```

Syntax	Description
<i>id</i>	ID of the port channel interface [intf-id].

Defaults	None
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Command Modes	Interface configuration (config-if)
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Supported User Roles	network-admin
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Command History	Release	Modification
	4.2(1)SP1(4)	This command was introduced.

**Examples** This example shows how to enter the interface configuration mode on a port channel:

```
n1010# configure terminal
n1010(config)# interface PortChannel1
n1010(config-if)#
```

Related Commands	Command	Description
	<b>show interface brief</b>	Displays a short version of the interface configuration.
	<b>show interface ethernet</b>	Displays information about the Ethernet interface.
	<b>show interface mgmt0</b>	Displays information about the traffic on the management interface.
	<b>show interface vethernet</b>	Displays information about the traffic on the specified virtual Ethernet interface.

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## interface VsbEthernet

To configure the virtual service blade (VSB) Ethernet interface and enter interface configuration mode, use the **interface VsbEthernet** command.

```
interface VsbEthernet name
```

Syntax	Description
<i>name</i>	Name of virtual service blade interface VsbEthernet [vb-id   intf-id].

Defaults	None
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Command Modes	Global configuration (config)
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Supported User Roles	network-admin
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Command History	Release	Modification
	4.2(1)SP1(3)	This command was introduced.

**Examples** This example shows how to enter the interface configuration mode on VsbEthernet 1/1/2:

```
n1010# configure terminal
n1010(config)# interface vsbEthernet 1/1/2
n1010(config-if)#
```

Related Commands	Command	Description
	<b>show interface brief</b>	Displays a short version of the interface configuration.
	<b>show interface ethernet</b>	Displays information about the Ethernet interface.
	<b>show interface mgmt0</b>	Displays information about the traffic on the management interface.
	<b>show interface vethernet</b>	Displays information about the traffic on the specified virtual Ethernet interface.

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## interface uplink

To assign an uplink to the virtual service blade (VSB) Ethernet interface , use the **interface uplink** command.

```
interface name uplink name
```

<b>Syntax</b>	<b>Description</b>	<i>name</i> Name of the uplink for the interface.
<b>Defaults</b>	None	
<b>Command Modes</b>	VSB configuration (config-vsbs-config)	
<b>Supported User Roles</b>	network-admin	
<b>Command History</b>	<b>Release</b>	<b>Modification</b>
	4.2(1)SP1(4)	This command was introduced.
<b>Examples</b>	This example shows how to assign an uplink to VSB: <pre>n1010# <b>configure terminal</b> n1010(config-vsbs-config)#<b>interface control vlan 347</b> n1010(config-vsbs-config)#<b>interface control uplink PortChannel2</b> n1010(config-vsbs-config)#</pre>	
<b>Related Commands</b>	<b>Command</b>	<b>Description</b>
	<b>show network summary</b>	Displays network summary information.

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## ip address

To create an IP route, use the **ip address** command. To remove an IP address, use the **no** form of this command.

```
ip address {address mask | prefix} {next-hop | next-hop-prefix | interface-type interface-number}
[tag tag-value | preference]
```

```
no ip address {address mask | prefix} {next-hop | next-hop-prefix | interface-type interface-number}
[secondary | tag tag-value | preference]
```

Syntax Description	
<i>address</i>	IP address, in format A.B.C.D.
<i>mask</i>	IP network mask, in format A.B.C.D.
<i>prefix</i>	IP prefix and network mask length, in format A.B.C.D./LEN.
<i>next-hop</i>	IP next-hop address, in format A.B.C.D.
<i>next-hop-prefix</i>	IP next-hop prefix in format A.B.C.D./LEN.
<i>interface-type</i>	Interface type.
<i>interface-number</i>	Interface or subinterface number.
<b>secondary</b>	(Optional) Configures additional IP addresses on the interface.
<b>tag</b>	(Optional) Specifies a supply tag.
<i>tag-value</i>	Supply tag value. The range of valid values is from 0 to 4294967295. The default is 0.
<i>preference</i>	(Optional) Route preference.

**Defaults** None

**Command Modes** Global configuration (config)

**Supported User Roles** network-admin

Command History	Release	Modification
	4.0(4)SP1(1)	This command was introduced.

**Examples** This example shows how to create an IP address:

```
n1010(config)# configure terminal
n1010(config)# ip address 209.165.200.225 255.255.255.224 x
n1010(config)#
```

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Related Commands	Command	Description
	show ip interface A.B.C.D.	Displays interfaces for local IP addresses.

■ ip address

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